Hit List

Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1. Document ID: US 6982710 B2

L21: Entry 1 of 21   File: USPT   Jan 3, 2006

US-PAT-NO: 6982710
DOCUMENT-IDENTIFIER: US 6982710 B2

TITLE: System and method to obtain surface structures of multi-dimensional objects, and to represent those surface structures for animation, transmission and display

PRIOR-PUBLICATION:
DOC-ID   DATE
US 20030052875 A1   March 20, 2003

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 2. Document ID: US 6975894 B2

L21: Entry 2 of 21   File: USPT   Dec 13, 2005

US-PAT-NO: 6975894
DOCUMENT-IDENTIFIER: US 6975894 B2

TITLE: Digital topological analysis of trabecular bone MR images and prediction of osteoporosis fractures

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 3. Document ID: US 6973158 B2

L21: Entry 3 of 21   File: USPT   Dec 6, 2005

US-PAT-NO: 6973158
DOCUMENT-IDENTIFIER: US 6973158 B2

TITLE: Multi-target X-ray tube for dynamic multi-spectral limited-angle CT imaging

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 6950493 B2

L21: Entry 4 of 21   File: USPT   Sep 27, 2005

US-PAT-NO: 6950493
DOCUMENT-IDENTIFIER: US 6950493 B2

TITLE: Dynamic multi-spectral CT imaging

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

□ 5. Document ID: US 6950492 B2

L21: Entry 5 of 21   File: USPT   Sep 27, 2005

US-PAT-NO: 6950492
DOCUMENT-IDENTIFIER: US 6950492 B2

TITLE: Dynamic multi-spectral X-ray projection imaging

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

□ 6. Document ID: US 6937884 B1

L21: Entry 6 of 21   File: USPT   Aug 30, 2005

US-PAT-NO: 6937884
DOCUMENT-IDENTIFIER: US 6937884 B1

TITLE: Method and system for imaging the dynamics of scattering medium

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

□ 7. Document ID: US 6845260 B2

L21: Entry 7 of 21   File: USPT   Jan 18, 2005

US-PAT-NO: 6845260
DOCUMENT-IDENTIFIER: US 6845260 B2

TITLE: Automatic vessel indentification for angiographic screening

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

□ 8. Document ID: US 6816743 B2

L21: Entry 8 of 21   File: USPT   Nov 9, 2004

US-PAT-NO: 6816743
DOCUMENT-IDENTIFIER: US 6816743 B2
** See image for Certificate of Correction **

TITLE: Methods and apparatus for in vivo identification and characterization of vulnerable atherosclerotic plaques

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

9. Document ID: US 6721773 B2

L21: Entry 9 of 21   File: USPT   Apr 13, 2004

US-PAT-NO: 6721773
DOCUMENT-IDENTIFIER: US 6721773 B2

TITLE: Single precision array processor

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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10. Document ID: US 6704694 B1

L21: Entry 10 of 21   File: USPT   Mar 9, 2004

US-PAT-NO: 6704694
DOCUMENT-IDENTIFIER: US 6704694 B1

TITLE: Ray based interaction system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
voxel and ray and sign and value and magnitude and distance and consecutive	21

Display Format: TI   Change Format

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Search Results - Record(s) 11 through 20 of 21 returned.

☐ 11.   Document ID: US 6597761 B1

L21: Entry 11 of 21   File: USPT   Jul 22, 2003

US-PAT-NO: 6597761
DOCUMENT-IDENTIFIER: US 6597761 B1

TITLE: Log evaluation using cylindrical projections

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image

☐ 12.   Document ID: US 6532017 B1

L21: Entry 12 of 21   File: USPT   Mar 11, 2003

US-PAT-NO: 6532017
DOCUMENT-IDENTIFIER: US 6532017 B1

TITLE: Volume rendering pipeline

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image

☐ 13.   Document ID: US 6512517 B1

L21: Entry 13 of 21   File: USPT   Jan 28, 2003

US-PAT-NO: 6512517
DOCUMENT-IDENTIFIER: US 6512517 B1

TITLE: Volume rendering integrated circuit

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image

☐ 14.   Document ID: US 6480285 B1

L21: Entry 14 of 21   File: USPT   Nov 12, 2002

US-PAT-NO: 6480285
DOCUMENT-IDENTIFIER: US 6480285 B1

TITLE: Multiple layer confocal interference microscopy using wavenumber domain reflectometry and background amplitude reduction and compensation

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image

☐   15.   Document ID: US 6466185 B2

L21: Entry 15 of 21   File: USPT   Oct 15, 2002

US-PAT-NO: 6466185
DOCUMENT-IDENTIFIER: US 6466185 B2

TITLE: Multi-planar volumetric display system and method of operation using psychological
vision cues

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐   16.   Document ID: US 6430589 B1

L21: Entry 16 of 21   File: USPT   Aug 6, 2002

US-PAT-NO: 6430589
DOCUMENT-IDENTIFIER: US 6430589 B1

TITLE: Single precision array processor

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐   17.   Document ID: US 5847711 A

L21: Entry 17 of 21   File: USPT   Dec 8, 1998

US-PAT-NO: 5847711
DOCUMENT-IDENTIFIER: US 5847711 A
** See image for Certificate of Correction **

TITLE: Apparatus and method for parallel and perspective real-time volume visualization

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐   18.   Document ID: US 5788713 A

L21: Entry 18 of 21   File: USPT   Aug 4, 1998

US-PAT-NO: 5788713
DOCUMENT-IDENTIFIER: US 5788713 A
** See image for Certificate of Correction **

TITLE: Method and apparatus for stereotactic implantation

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐   19.   Document ID: US 5601083 A

L21: Entry 19 of 21   File: USPT   Feb 11, 1997

US-PAT-NO: 5601083
DOCUMENT-IDENTIFIER: US 5601083 A

TITLE: Real time 3D imaging device using filtered ellipsoidal backprojection

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐ 20.   Document ID: US 5235857 A

L21: Entry 20 of 21   File: USPT   Aug 17, 1993

US-PAT-NO: 5235857
DOCUMENT-IDENTIFIER: US 5235857 A

TITLE: Real time 3D imaging device using filtered ellipsoidal backprojection with extended transmitters

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
voxel and ray and sign and value and magnitude and distance and consecutive	21

Display Format: TI   Change Format

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Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 21 through 21 of 21 returned.

☐ 21. Document ID: US 5090245 A

L21: Entry 21 of 21   File: USPT   Feb 25, 1992

US-PAT-NO: 5090245
DOCUMENT-IDENTIFIER: US 5090245 A

TITLE: Three dimensional imaging device using filtered ellipsoidal backprojection

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. Desc | Image

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
voxel and ray and sign and value and magnitude and distance and consecutive	21

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Search Results - Record(s) 1 through 10 of 16 returned.

☐ 1. Document ID: US 20060018548 A1

L20: Entry 1 of 16   File: PGPB   Jan 26, 2006

PGPUB-DOCUMENT-NUMBER: 20060018548
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060018548 A1

TITLE: Method, system, and computer software product for automated identification of temporal patterns with high initial enhancement in dynamic magnetic resonance breast imaging

PUBLICATION-DATE: January 26, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen; Weijie	Chicago	IL	US
Giger; Maryellen L.	Elmhurst	IL	US
Newstead; Gillian	Chicago	IL	US

US-CL-CURRENT: 382/190

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 20050220265 A1

L20: Entry 2 of 16   File: PGPB   Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050220265
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050220265 A1

TITLE: Methods for acquiring multi spectral data of an object

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Besson, Guy M.	Broomfield	CO	US

US-CL-CURRENT: 378/16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 3. Document ID: US 20050128195 A1

PGPUB-DOCUMENT-NUMBER: 20050128195
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050128195 A1

TITLE: Method for converting explicitly represented geometric surfaces into accurate level sets

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Houston, Benjamin B.	Winnipeg		CA
Wiebe, Mark	Winnipeg		CA

US-CL-CURRENT: 345/419

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 4.   Document ID: US 20050070699 A1

L20: Entry 4 of 16   File: PGPB   Mar 31, 2005

PGPUB-DOCUMENT-NUMBER: 20050070699
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050070699 A1

TITLE: Hbm variants that modulate bone mass and lipid levels

PUBLICATION-DATE: March 31, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Allen, Kristina	Hopkinton	MA	US
Anisowicz, Anthony	West Newton	MA	US
Graham, James R.	Arlington	MA	US
Morales, Arturo	Arlington	MA	US
Yaworsky, Paul J.	Rockland	MA	US
Liu, Wei	Sudbury	MA	US

US-CL-CURRENT: 536/23.2; 435/226, 435/320.1, 435/325, 435/6, 435/69.1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 5.   Document ID: US 20040264628 A1

L20: Entry 5 of 16   File: PGPB   Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040264628
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040264628 A1

TITLE: DYNAMIC MULTI-SPECTRAL IMAGING WITH WIDEBAND SELETABLE SOURCE

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Besson, Guy M.	Broomfield	CO	US

US-CL-CURRENT: 378/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 20040264627 A1

L20: Entry 6 of 16   File: PGPB   Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040264627
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040264627 A1

TITLE: Dynamic multi-spectral X-ray projection imaging

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Besson, Guy M.	Broomfield	CO	US

US-CL-CURRENT: 378/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 20040264626 A1

L20: Entry 7 of 16   File: PGPB   Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040264626
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040264626 A1

TITLE: Dynamic multi-spectral imaging with wideband selecteable source

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Besson, Guy M.	Broomfield	CO	US

US-CL-CURRENT: 378/4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 20040244069 A1

PGPUB-DOCUMENT-NUMBER: 20040244069
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040244069 A1

TITLE: Transgenic animal model of bone mass modulation

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Askew, G. Roger	Boxford	MA	US
Babij, Philip	Dunstable	MA	US
Bex, Frederick James III	Newtown Square	PA	US
Nest Bodine, Peter Van	Havertown	PA	US

US-CL-CURRENT: 800/14

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 9.   Document ID: US 20040221326 A1

PGPUB-DOCUMENT-NUMBER: 20040221326
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040221326 A1

TITLE: Transgenic animal model of bone mass modulation

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Babij, Philip	Newbury Park	CA	US
Bex, Frederick James	Newton Square	PA	US
Bodine, Peter Van Nest	Havertown	PA	US
Askew, G. Roger	Boxford	MA	US

US-CL-CURRENT: 800/3; 800/8

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 10.   Document ID: US 20030166999 A1

PGPUB-DOCUMENT-NUMBER: 20030166999
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030166999 A1

TITLE: Automatic vessel identification for angiographic screening

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Liu, Kecheng	Solon	OH	US
Suri, Jasjit S.	Mayfield Heights	OH	US

US-CL-CURRENT: 600/410

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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Terms	Documents
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Search Results - Record(s) 11 through 16 of 16 returned.

☐ 11. Document ID: US 20030052875 A1

L20: Entry 11 of 16   File: PGPB   Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030052875
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030052875 A1

TITLE: System and method to obtain surface structures of multi-dimensional objects, and to represent those surface structures for animation, transmission and display

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Salomie, Ioan Alexandru	Brussels		BE

US-CL-CURRENT: 345/419

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 12. Document ID: US 20020191823 A1

L20: Entry 12 of 16   File: PGPB   Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020191823
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020191823 A1

TITLE: Digital topological analysis of trabecular bone MR images and prediction of osteoporosis fractures

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wehrli, Felix W.	Bala Cynwyd	PA	US
Saha, Punam K.	Philadelphia	PA	US
Gomberg, Bryon Roos	Philadelphia	PA	US

US-CL-CURRENT: 382/128; 128/920, 600/407

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ **13.   Document ID: US 20020184284 A1**

L20: Entry 13 of 16   File: PGPB   Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020184284
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020184284 A1

TITLE: Single precision array processor

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY
Jennings, Earle W. III	San Jose	CA	US

US-CL-CURRENT: 708/501

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ **14.   Document ID: US 20020163482 A1**

L20: Entry 14 of 16   File: PGPB   Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020163482
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020163482 A1

TITLE: Multi-planar volumetric display system including optical elements made from liquid
crystal having polymer stabilized cholesteric textures

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:
NAME	CITY	STATE	COUNTRY
Sullivan, Alan	White Plains	NY	US

US-CL-CURRENT: 345/6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ **15.   Document ID: US 20020113752 A1**

L20: Entry 15 of 16   File: PGPB   Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020113752
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020113752 A1

TITLE: MULTI-PLANAR VOLUMETRIC DISPLAY SYSTEM AND METHOD OF OPERATION USING PSYCHOLOGICAL
VISION CUES

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sullivan, Alan	White Plains	NY	US
Snuffer, John	New York	NY	US

US-CL-CURRENT: 345/6

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 16.   Document ID: US 20010047137 A1

L20: Entry 16 of 16   File: PGPB   Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047137
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010047137 A1

TITLE: Methods and apparatus for in vivo identification and characterization of vulnerable atherosclerotic plaques

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moreno, Pedro	Lexington	KY	US
Lodder, Robert A.	Nicholasville	KY	US
O'Connor, William	Lexington	KY	US
Muller, James E.	Lexington	KY	US

US-CL-CURRENT: 600/475; 250/338.1, 250/339.01, 250/339.06, 250/339.11, 600/476, 600/477

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L19 and consecutive	16

Display Format: CIT   Change Format

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Search Results - Record(s) 1 through 10 of 21 returned.

☐ 1.   Document ID: US 6982710 B2

L21: Entry 1 of 21   File: USPT   Jan 3, 2006

US-PAT-NO: 6982710
DOCUMENT-IDENTIFIER: US 6982710 B2

TITLE: System and method to obtain surface structures of multi-dimensional objects, and to represent those surface structures for animation, transmission and display

DATE-ISSUED: January 3, 2006

PRIOR-PUBLICATION:
DOC-ID   DATE
US 20030052875 A1   March 20, 2003

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Salomie; Ioan Alexandru	Brussels			BE

US-CL-CURRENT: 345/420

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

☐ 2.   Document ID: US 6975894 B2

L21: Entry 2 of 21   File: USPT   Dec 13, 2005

US-PAT-NO: 6975894
DOCUMENT-IDENTIFIER: US 6975894 B2

TITLE: Digital topological analysis of trabecular bone MR images and prediction of osteoporosis fractures

DATE-ISSUED: December 13, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Wehrli; Felix W.	Bala Cynwyd	PA		
Saha; Punam K.	Philadelphia	PA		
Gomberg; Bryon Roos	Philadelphia	PA		

US-CL-CURRENT: 600/407; 378/21, 378/23, 378/27, 378/4, 378/46, 378/47, 378/62, 382/128, 382/131, 382/132, 600/410, 600/411, 600/416, 600/425

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐ 3.   Document ID: US 6973158 B2

L21: Entry 3 of 21   File: USPT   Dec 6, 2005

US-PAT-NO: 6973158
DOCUMENT-IDENTIFIER: US 6973158 B2

TITLE: Multi-target X-ray tube for dynamic multi-spectral limited-angle CT imaging

DATE-ISSUED: December 6, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Besson; Guy M.	Broomfield	CO	80020	

US-CL-CURRENT: 378/16; 378/22, 378/5, 378/901

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐ 4.   Document ID: US 6950493 B2

L21: Entry 4 of 21   File: USPT   Sep 27, 2005

US-PAT-NO: 6950493
DOCUMENT-IDENTIFIER: US 6950493 B2

TITLE: Dynamic multi-spectral CT imaging

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Besson; Guy M.	Broomfield	CO	80020	

US-CL-CURRENT: 378/16

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

☐ 5.   Document ID: US 6950492 B2

L21: Entry 5 of 21   File: USPT   Sep 27, 2005

US-PAT-NO: 6950492
DOCUMENT-IDENTIFIER: US 6950492 B2

TITLE: Dynamic multi-spectral X-ray projection imaging

DATE-ISSUED: September 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Besson; Guy M.	Broomfield	CO	80020	

US-CL-CURRENT: <u>378</u>/<u>5</u>; <u>378</u>/<u>16</u>, <u>378</u>/<u>901</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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6.   Document ID: US 6937884 B1

L21: Entry 6 of 21   File: USPT   Aug 30, 2005

US-PAT-NO: 6937884
DOCUMENT-IDENTIFIER: US 6937884 B1

TITLE: Method and system for imaging the dynamics of scattering medium

DATE-ISSUED: August 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barbour; Randall L.	Glen Head	NY		

US-CL-CURRENT: <u>600</u>/<u>473</u>; <u>356</u>/<u>39</u>, <u>356</u>/<u>40</u>, <u>356</u>/<u>41</u>, <u>382</u>/<u>128</u>, <u>382</u>/<u>130</u>, <u>600</u>/<u>310</u>, <u>600</u>/<u>323</u>, <u>600</u>/<u>407</u>, <u>600</u>/<u>476</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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7.   Document ID: US 6845260 B2

L21: Entry 7 of 21   File: USPT   Jan 18, 2005

US-PAT-NO: 6845260
DOCUMENT-IDENTIFIER: US 6845260 B2

TITLE: Automatic vessel indentification for angiographic screening

DATE-ISSUED: January 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liu; Kecheng	Solon	OH		
Suri; Jasjit S.	Mayfield Heights	OH		

US-CL-CURRENT: <u>600</u>/<u>410</u>; <u>600</u>/<u>407</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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8.   Document ID: US 6816743 B2

L21: Entry 8 of 21   File: USPT   Nov 9, 2004

US-PAT-NO: 6816743

DOCUMENT-IDENTIFIER: US 6816743 B2
** See image for **Certificate of Correction** **

TITLE: Methods and apparatus for in vivo identification and characterization of vulnerable atherosclerotic plaques

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moreno; Pedro	Lexington	KY		
Lodder; Robert A.	Nicholasville	KY		
O'Connor; William	Lexington	KY		
Muller; James E.	Lexington	KY		

US-CL-CURRENT: <u>600/473</u>; <u>382/128</u>, <u>382/130</u>, <u>600/476</u>, <u>600/478</u>, <u>600/479</u>CIPG20060101AA61BA61B5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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9. Document ID: US 6721773 B2

L21: Entry 9 of 21   File: USPT   Apr 13, 2004

US-PAT-NO: 6721773
DOCUMENT-IDENTIFIER: US 6721773 B2

TITLE: Single precision array processor

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jennings, III; Earle W.	San Jose	CA		

US-CL-CURRENT: <u>708/505</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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10. Document ID: US 6704694 B1

L21: Entry 10 of 21   File: USPT   Mar 9, 2004

US-PAT-NO: 6704694
DOCUMENT-IDENTIFIER: US 6704694 B1

TITLE: <u>Ray</u> based interaction system

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Basdogan; Cagatay	Pasadena	CA		
Ho; Chih-Hao	Cambridge	MA		

Srinivasan; Mandayam A.   West Newton   MA

US-CL-CURRENT: <u>703/4</u>; <u>345/184</u>, <u>703/6</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Desc | Image |

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1 Visualization of Noisy and Biased Volume Data Using First and Second Order Derivative Techniques
M. P. Persoon, I. W. O. Serlie, F. H. Post, R. Truyen, F. M. Vos
October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(1.39 MB)   Additional Information: full citation, abstract

> The quality of volume visualization depends strongly on the quality of the underlying data. In virtual colonoscopy, CT data should be acquired at a low radiation dose that results in a low signal-to-noise ratio. Alternatively, MRI data is acquired without ionizing radiation, but suffers from noise and bias (global signal fluctuations). Current volume visualization techniques often do not produce good results with noisy or biased data. This paper describes methods for volume visualization that de ...

> **Keywords:** virtual colonoscopy, bias field, medical imaging, surface extraction, direct volume rendering

2 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(17.07 MB)   Additional Information: full citation, abstract

> Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

3 Real-time volume graphics
Klaus Engel, Markus Hadwiger, Joe M. Kniss, Aaron E. Lefohn, Christof Rezk Salama, Daniel Weiskopf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(7.63 MB)   Additional Information: full citation, abstract

> The tremendous evolution of programmable graphics hardware has made high-quality real-time volume graphics a reality. In addition to the traditional application of rendering

volume data in scientific visualization, the interest in applying these techniques for real-time rendering of atmospheric phenomena and participating media such as fire, smoke, and clouds is growing rapidly. This course covers both applications in scientific visualization, e.g., medical volume data, and real-time rendering, ...

4 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(17.65 MB)   Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

5 Adaptive Design of a Global Opacity Transfer Function for Direct Volume Rendering of Ultrasound Data

Dieter Honigmann, Johannes Ruisz, Christoph Haider

October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**

Publisher: IEEE Computer Society

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract

While there are a couple of transfer function design approaches for CT and MRI data, direct volume rendering of ultrasound data still relies on manual adjustment of an inflexible piecewise linear opacity transfer function (OTF) on a trial-and-error basis. The main challenge of automatically designing an OTF for visualization of sonographic data is the low signal-to-noise ratio in combination with real time data acquisition at frame rates up to 25 volumes per second. In this paper, we present an ...

Keywords: 3D ultrasound, direct volume rendering, transfer function

6 Frequency domain volume rendering

Takashi Totsuka, Marc Levoy

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: pdf(258.84 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Fourier transform, digital signal processing, medical imaging, scientific visualization, shading models, volume rendering

7 The VolumePro real-time ray-casting system

Hanspeter Pfister, Jan Hardenbergh, Jim Knittel, Hugh Lauer, Larry Seiler

July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(2.11 MB)   Additional Information: full citation, references, citings, index terms

Keywords: graphics hardware, hardware systems, rendering hardware, rendering systems, volume rendering

8 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

9 A scalable parallel cell-projection volume rendering algorithm for three-dimensional unstructured data

Kwan-Liu Ma, Thomas W. Crockett

October 1997 **Proceedings of the IEEE symposium on Parallel rendering**

Publisher: ACM Press

Full text available: pdf(1.67 MB)   Additional Information: full citation, references, citings, index terms

Keywords: asynchronous communication, distributed memory, hierarchical data structures, load balancing, message passing, parallel algorithms, scientific visualization, unstructured grids, volume rendering

10 A ray-slice-sweep volume rendering engine

Ingmar Bitter, Arie Kaufman

August 1997 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS workshop on Graphics hardware**

Publisher: ACM Press

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

Keywords: compositing, gradient estimation, hardware design, perspective projection, volume rendering architecture, volume visualization

11 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.22 MB)   Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

12 Collision detection and proximity queries

Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Christer Ericson

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(11.22 MB)   Additional Information: full citation, abstract

This course will primarily cover widely accepted and proved methodologies in collision detection. In addition more advanced or recent topics such as continuous collision detection, ADFs, and using graphics hardware will be introduced. When appropriate the methods discussed will be tied to familiar applications such as rigid body and cloth simulation, and will be compared. The course is a good overview for those developing applications in physically based modeling, VR, haptics, and robotics.

13 Ray tracing: Multi-level ray tracing algorithm

Alexander Reshetov, Alexei Soupikov, Jim Hurley

July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(662.90 KB)   Additional Information: full citation, abstract, references, index terms

We propose new approaches to ray tracing that greatly reduce the required number of operations while strictly preserving the geometrical correctness of the solution. A hierarchical "beam" structure serves as a proxy for a collection of rays. It is tested against a kd-tree representing the overall scene in order to discard from consideration the sub-set of the kd-tree (and hence the scene) that is guaranteed not to intersect with any possible ray inside the beam. This allows for all the rays insi ...

Keywords: anti-aliasing, frustum occlusion culling, ray-tracing

14 Volume rendering: VIZARD II: a reconfigurable interactive volume rendering system

M. Meißner, U. Kanus, G. Wetekam, J. Hirche, A. Ehlert, W. Straßer, M. Doggett, P. Forthmann, R. Proksa

September 2002 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware**

Publisher: Eurographics Association

Full text available: pdf(767.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a reconfigurable, hardware accelerated, volume rendering system for high quality perspective ray casting. The volume rendering accelerator performs ray casting by calculating the path of the ray through the volume using a programmable Xilinx Virtex FPGA which provides fast design changes and low cost development. Volume datasets are stored on the card in low profile DIMMs with standard connectors allowing both, large datasets up to 1 GByte with 32 bit per voxel, and easy upgr ...

15 Volume rendering

Robert A. Drebin, Loren Carpenter, Pat Hanrahan

June 1988 **ACM SIGGRAPH Computer Graphics , Proceedings of the 15th annual conference on Computer graphics and interactive techniques SIGGRAPH '88**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(4.94 MB)   Additional Information: full citation, abstract, references, citings, index terms

A technique for rendering images of volumes containing mixtures of materials is presented. The shading model allows both the interior of a material and the boundary between materials to be colored. Image projection is performed by simulating the absorption of light along the ray path to the eye. The algorithms used are designed to avoid artifacts caused by aliasing and quantization and can be efficiently implemented on an image computer. Images from a variety of applications are shown.

Keywords: computer tomography, image processing, magnetic resonance imaging (MRI), medical imaging, non-destructive evaluation (NDE), scientific visualization

16 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(7.38 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

17 Low-complexity maximum intensity projection

Benjamin Mora, David S. Ebert

October 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(9.92 MB)   Additional Information: full citation, abstract, references, index terms

Many techniques have already been proposed to improve the efficiency of maximum intensity projection (MIP) volume rendering, but none of them considered the possible hypothesis of a better complexity than either $O(n)$ for finding the maximum value of n samples along a ray or $O(n^3)$ for an object-order algorithm. Here, we fully model and analyze the use of octrees for MIP, and we mathematically show that the average MIP complexity can be reduced to $O(n^2$ ˄

Keywords: Maximum intensity projection, complexity, volume rendering

18 Controllable smoke animation with guiding objects

Lin Shi, Yizhou Yu

January 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(246.85 KB)   Additional Information: full citation, abstract, references, index terms

This article addresses the problem of controlling the density and dynamics of smoke (a gas phenomenon) so that the synthetic appearance of the smoke (gas) resembles a still or moving object. Both the smoke region and the target object are represented as implicit functions. As a part of the target implicit function, a shape transformation is generated between an initial smoke region and the target object. In order to match the smoke surface with the target surface, we impose carefully designed ...

Keywords: Constrained animation, fluid simulation, implicit functions, level sets, shape matching, shape transformations, velocity constraints

19 Bridging the gap between CSG and Brep via a triple ray representation

M. O. Benouamer, D. Michelucci

May 1997 **Proceedings of the fourth ACM symposium on Solid modeling and applications**

Publisher: ACM Press

Full text available: pdf(1.70 MB)   Additional Information: full citation, references, citings, index terms

20 Volume rendering of 3D scalar and vector fields at LLNL

R. Crawfis, N. Max, B. Becker, B. Cabral

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: .pdf(2.06 MB)   Additional Information: full citation, references, index terms

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